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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/892,061	06/26/2001	Nicholas R. Bachur JR.	P-5026	1747
26253	7590 08/12/2004		EXAMINER	
	HIGHET, VP AND CH	BEISNER, WILLIAM H		
	ICKINSON AND COMPA DRIVE, MC 110	NY	ART UNIT	PAPER NUMBER
FRANKLIN LAKES, NJ 07417-1880			1744	

DATE MAILED: 08/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Advisory Action	09/892,061	BACHUR ET AL.				
Advisory Action	Examiner	Art Unit				
	William H. Beisner	1744				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
THE REPLY FILED 26 July 2004 FAILS TO PLACE THE Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may only be either: (1 condition for allowance; (2) a timely filed Notice of Appear Examination (RCE) in compliance with 37 CFR 1.114.	void abandonment of this applice i) a timely filed amendment whi	cation. A proper reply to a ch places the application in				
PERIOD FOR RE	PLY [check either a) or b)]					
a) The period for reply expiresmonths from the mailing of						
b) The period for reply expires on: (1) the mailing date of this Advevent, however, will the statutory period for reply expire later the ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f).	an SIX MONTHS from the mailing date of FILED WITHIN TWO MONTHS OF THI	f the final rejection. E FINAL REJECTION. See MPEP				
Extensions of time may be obtained under 37 CFR 1.136(a). The dathave been filed is the date for purposes of determining the period of extensions CFR 1.17(a) is calculated from: (1) the expiration date of the shortened (b) above, if checked. Any reply received by the Office later than three moterned patent term adjustment. See 37 CFR 1.704(b).	sion and the corresponding amount of the statutory period for reply originally set in	fee. The appropriate extension fee under the final Office action; or (2) as set forth in				
1 A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CF						
2. The proposed amendment(s) will not be entered be	ecause:					
(a) \square they raise new issues that would require furth	er consideration and/or search (see NOTE below);				
(b) they raise the issue of new matter (see Note by	pelow);					
(c) they are not deemed to place the application issues for appeal; and/or	in better form for appeal by mat	erially reducing or simplifying the				
(d) they present additional claims without cancel NOTE:	ing a corresponding number of	finally rejected claims.				
3. Applicant's reply has overcome the following rejection	tion(s):					
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a s	eparate, timely filed amendment				
5. ☑ The a) ☐ affidavit, b) ☐ exhibit, or c) ☑ request fo application in condition for allowance because: See		sidered but does NOT place the				
6. The affidavit or exhibit will NOT be considered be raised by the Examiner in the final rejection.	cause it is not directed SOLELY	to issues which were newly				
7. For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.						
The status of the claim(s) is (or will be) as follows:						
Claim(s) allowed:						
Claim(s) objected to:						
Claim(s) rejected:						
Claim(s) withdrawn from consideration:						
8. \square The drawing correction filed on is a) \square app	roved or b) disapproved by	the Examiner.				
9. Note the attached Information Disclosure Stateme	nt(s)(PTO-1449) Paper No(s).	·				
10. Other:						
		William H. Beisner				
		Primary Examiner Art Unit: 1744				

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ATTACHMENT TO ADVISORY ACTION

Response to Arguments

1. Applicant's arguments filed 26 July 2004 have been fully considered but they are not persuasive.

Applicants argue that all of the 35 USC 103 rejections of record are improper because "None of the cited prior art teaches or suggests the claimed invention".

- a) With respect to the reference of Sussman et al., Applicants stress that the IR source is not a diode laser and that carbon dioxide is measured in the 2.3-2.4 micron wavelength region.
- b) With respect to the reference of Wrobel et al., Applicants stress that while the reference discloses the use of a tunable IR diode laser, its use would be unuable for the instant invention for the following reasons: 1) The laser diode needs to be cooled in liquid helium; 2) The present invention involves the detection of gases that do not fall within the disclosed wavelength of the reference of Wrobel et al.; and 3) In view of the age of the reference, if practical, the disclosure of Sussman would have mentioned the use of a laser diode.
- c) With respect to the reference of Fraatz et al., Applicants stress that the reference of Fraatz et al. does not involve the use of IR spectroscopy but rather involves the use of a color change sensore within the culture bottle.
- d) With respect to the reference of Brace, Applicants stress that the pressure measurement of Brace differs from the instant invention because the width of the absorption peak is employed by the instant invention and this is not taught by the reference of Brace. Also the instant invention employs a single wavelength while the reference of Brace employs a wavelength band.

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d) With respect to the reference of Waters, Applicants stress that the reference involves a physical change to detect pressure not changes in absorption spectrum.

f) With respect to the references of Carr et al. and Berndt et al., Applicants stress that these references fail to make up for the previous deficiencies discussed with respect to the other prior art references of record.

In response to a) above, the examiner acknowledges that the reference of Sussman et al. does not disclose the use of a diode laser. For this reason, the reference was combined with the teachings of Wrobel et al.

In response to b) above, the fact that the laser diode needs to be cooled is immaterial for the following reasons: The instant claims do not preclude its use. The fact that Applicants think it may be impractical is immaterial since the device is clearly capable of being used with vessels such as that disclosed in the reference of Sussman et al. (See column 3, lines 9-16, of Wrobel et al.). Furthermore the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). With respect to the wavelengths employed, the device of Wrobel et al. is capable of providing the wavelength required of the reference of Sussman et al. Specifically, the reference of Sussman et al. employs a 2.3-2.4micron wavelength while the device of Wrobel et al. is capable of providing wavelengths between 2-6microns. Furthermore, Applicants arguments with respect to the detection of additional gases are not persuasive because they are not commensurate in scope with

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the instant claim language. None of the instant claims recites the specific wavelengths argued by Applicants. Also, in view of the prior art of Fraatz et al., one of ordinary skill would have been motivated to detect for the presence of additional gases. Determination and/or changes in the system to detect these gases would have been clearly within the purview of one having ordinary skill in the art. For example, if the specific diode laser of Wrobel et al. is not capable of producing a desired wavelength, one of ordinary skill would have been capable of determining other known diode lasers which would be capable of providing the desired wavelength while providing the advantages associated with the use of a diode laser device over other IR sources. In response to applicant's argument based upon the age of the references, contentions that the reference patents are old are not impressive absent a showing that the art tried and failed to solve the same problem notwithstanding its presumed knowledge of the references. See *In re Wright*, 569 F.2d 1124, 193 USPQ 332 (CCPA 1977).

With respect to Applicants' comments directed to the teachings of the reference of Fraatz et al., the reference of Fraatz et al. has been cited as a teaching reference that suggests other gases that are known in the art to be detected within a sealed culture container. The previously discussed disclosures of Sussman et al. and Wrobel et al. clearly suggest that other gases can be measured using IR spectroscopy.

With respect to Applicants' comments directed to the teachings of the references of Waters and Brace, the reference of Waters was cited merely as a tertiary reference that suggests to one of ordinary skill in the art that the presence of pressure changes within a sealed culture vessel is known in the art to indicate the presence of a microorganism. The reference of Brace is relied upon to establish that one of ordinary skill in the art would recognize that IR spectroscopy

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can also be used to indicate pressures changes. Additionally, while applicants comment that the instant invention involves the use of width of the absorption peak for detection of pressure, the instant claims are devoid of any language commensurate in scope with these comments. It is noted that claims 1 and 20 merely recite "a signal analyzer chosen to analyze said detected portion of said energy signal to determine whether said gas exists in said container" and claims 11 and 30 merely recited "analyzing said detected portion of said energy signal to determine whether a pressure exists in said container".

With respect to Applicants' comments directed to the teachings of the reference of Carr et al., the reference of Carr et al. was relied upon as merely as a tertiary reference that suggests that it is conventional in the art to position a light source and detector within a movable housing. The use of a laser to detect the presence of microorganisms within a sealed vessel without a deformable septa has been suggested by the combination of the references of Sussman et al. and Wrobel et al. Note the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

With respect to Applicants' comments directed to the teachings of the reference of Berndt et al., the reference of Berndt et al. was relied upon as merely as a tertiary reference that suggests that it is conventional in the art to position containers on a turntable for interrogation by a light source and detector. The use of a laser to detect the presence of microorganisms within a sealed vessel without a deformable septa has been suggested by the combination of the references of

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Sussman et al. and Wrobel et al. Note the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor

is it that the claimed invention must be expressly suggested in any one or all of the references.

Rather, the test is what the combined teachings of the references would have suggested to those

of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

For these reasons Applicants arguments are not found to be persuasive and the 35 USC

103 rejections of record have been maintained.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Beisner whose telephone number is 571-272-1269.

The examiner can normally be reached on Tues. to Fri. and alt. Mon. from 6:15am to 3:45pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Warden can be reached on 571-272-1281. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William H. Beisner Primary Examiner

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WHB